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Trans. of [Akademie der Wissenschaften, Munich.
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Free-air gravity maps compiled from the usual, measured, free-air values which depend on the accidental position of the elevation point have no relation to isostasy. They have to be reduced to an average elevation (a common level surface) (Putnam, 1896, et al). In view of the dense survey network of Central Europe, other (Earth Sciences--Geology, TT, v. 9, no. 5) (over)

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Office of Technical Services

authors have also determined a representative value in $\Delta g'$ om for every four survey sheets (500 km²) from the average gravity values, from which they have then drawn isogams. The free-air anomaly and Bouguer anomaly of the Heidelberg Loch and the Neckar-Tauber anomaly are compared. The Bouguer isogams include the effect of all the disturbing masses below a reference surface (for example, sea level), while the average free-air isogams include the effect of all the masses below the average terrain elevation. Bouguer isogams are suited to provide data about unknown geological disturbing bodies and are used for economic geophysical purposes. Mean free-air isogams yield approximate data on the isostasy of an area without the need for cumbersome isostatic computations or arbitrary assumptions about the distribution of densities with depth. (Author)

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